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Figure 1

		forward	
GNSQ_1754	gaggta	atg aat gtc att gtt tta cag ttt att ctt ctt gtg ttt ctt ctt	51
p1754		Met Asn Val Ile Val Leu Gln Phe Ile Leu Leu Val Phe Leu Leu	15
		S S S S S S	
GNSQ_1754		gtg aag ata tat aag cat gca gac aca cta ttt tat ata tat ata	96
p1754		Val Lys Ile Tyr Lys His Ala Asp Thr Leu Phe Tyr Ile Tyr Ile	30
		S	
GNSQ_1754		cct ata tat gta tgt atg tgt ata cac agt tat gca ctg tat aac	141
p1754		Pro Ile Tyr Val Cys Met Cys Ile His Ser Tyr Ala Leu Tyr Asn	45
		S S	
GNSQ_1754		agt att ttg gtc agt gat gga ctg cgt atg cta agg tgt tcc cat	186
p1754		Ser Ile Leu Val Ser Asp Gly Leu Arg Met Leu Arg Cys Ser His	60
		S	
GNSQ_1754		aag att ata ata agt act ttg act ata act ttt cta tgt tta cat	231
p1754		Lys Ile Ile Ile Ser Thr Leu Thr Ile <u>Thr Phe Leu Cys Leu His</u>	75
		S	
GNSQ_1754		gca gaa ata ctt act aat ggg tta cag ttg cct aca gta ttc agt	276
p1754		<u>Ala Glu Ile Leu</u> Thr Asn Gly Leu Gln Leu Pro Thr Val Phe Ser	90
		reverse	
GNSQ_1754		aca cca gca tgc tgt aca ggt tgg tag	303
p1754		Thr Pro Ala Cys Cys Thr Gly Trp STOP	98
		S	

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Figure 2

forward

GNSQ_0711	agcatt	atg gtt att cca cat ctt	gtt tta ttg act ttg att tcc ttt aga	51
p0711		Met Val Ile Pro His Leu Val Leu Leu Thr Leu Ile Ser Phe Arg		15
		S S S S S S		
GNSQ_0711		tta aaa gaa aaa aat agt gta ttt cat tta att ttc ccc gct att	96	
p0711		Leu Lys Glu Lys Asn Ser Val Phe His Leu Ile Phe Pro Ala Ile	30	
GNSQ_0711		cac agt tta tgc tta tgt gat tct gga aga att cca gct agg aat	141	
p0711		His Ser Leu Cys Leu Cys Asp Ser Gly Arg Ile Pro Ala Arg Asn	45	
		S S		
GNSQ_0711		gcc ttg gac cca tcc cag cag caa ccc ctg cag cag gac aaa	186	
p0711		Ala Leu Asp Pro Ser Gln Asp Gln Gln Pro Leu Gln Gln Asp Lys	60	
GNSQ_0711		gat ggc act gag act atg tgt gta gct gga agc aac cta aat gtc	231	
p0711		Asp Gly Thr Glu Thr Met Cys Val Ala Gly Ser Asn Leu Asn Val	75	
		S		
GNSQ_0711		cat tcg tgg gtg aat gaa gaa aga aaa tgt ggc ata tcc ata caa	276	
p0711		His Ser Trp Val Asn Glu Glu Arg Lys Cys Gly Ile Ser Ile Gln	90	
		S		
GNSQ_0711		tgt aat atc att cag cct tta caa agt agg aaa ctc tgc cgt ttg	321	
p0711		Cys Asn Ile Ile Gln Pro Leu Gln Ser Arg Lys Leu Cys Arg Leu	105	
reverse				
GNSQ_0711		ctg caa cag aga tga	336	
p0711		Leu Gln Gln Arg STOP	109	
		S		

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Figure 3

GNSQ_2882 p2882	ggaagt atg agt cct agt tta ttc ttc att ttt aag att gtt ttg gct att Met Ser Pro Ser Leu Phe Phe Ile Phe Lys Ile Val Leu Ala Ile S S S S S	51 15
GNSQ_2882 p2882	gtg gat tcc ctg caa ttc tat atg aat ttc gaa tca gtt tgt cga Val Asp Ser Leu Gln Phe Tyr Met Asn Phe Glu Ser Val Cys Arg S S	96 30
GNSQ_2882 p2882	tgt ctg caa aaa atc tct gtg att ctg ata ggg att gct ttt aac Cys Leu Gln Lys Ile Ser Val Ile Leu Ile Gly Ile Ala Phe Asn S	141 45
GNSQ_2882 p2882	ctg tgt aac gat ttg ggg agt att gtc att tta aca gtg tta tgt Leu Cys Asn Asp Leu Gly Ser Ile Val Ile Leu Thr Val Leu Cys S	186 60
GNSQ_2882 p2882	att cta atc cat gaa tat gaa ata tat ttc ctt ttg ttt aga tct Ile Leu Ile His Glu Tyr Glu Ile Tyr Phe Leu Leu Phe Arg Ser S	231 75
GNSQ_2882 p2882	ttg att ttt tca tta tgt ttt ata gtt cca gag tat agt aag ttt Leu Ile Phe Ser Leu Cys Phe Ile Val Pro Glu Tyr Ser Lys Phe S	276 90
GNSQ_2882 p2882	tgc aat ttt tat gtt aaa ttt att ctt aag aat tta ttt ttg atg Cys Asn Phe Tyr Val Lys Phe Ile Leu Lys Asn Leu Phe Leu Met	321 105
GNSQ_2882 p2882	cta tca taa Leu Ser STOP S	330 107

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Figure 4

GNSQ_4711	tctagg atg gta act cct atc tgg aca ctt ttc att tgt tac tgt ttg acc	51
p4711	Met Val Thr Pro Ile Trp Thr Leu Phe Ile Cys Tyr Cys Leu Thr	15
	S S	
GNSQ_4711	tct ttg ctt gta tta cag gct ata ttt aaa gaa ata gat aac att	96
p4711	Ser Leu Leu Val Leu Gln Ala Ile Phe Lys Glu Ile Asp Asn Ile	30
	S S S S	
GNSQ_4711	ctc tct gag gtt gat tta aac caa cat cct gta cgt tgc tgc tat	141
p4711	Leu Ser Glu Val Asp Leu Asn Gln His Pro Val Arg Cys Cys Tyr	45
	S S	
GNSQ_4711	agc ttc cca aca ttt tgt gta gag ggg atg cta ttg aag ttg tgt	186
p4711	Ser Phe Pro Thr Phe Cys Val Glu Met Leu Leu Lys Leu Cys	60
GNSQ_4711	ttt aat atg gag cca cac tgt ttt ctt tct ctg acc cag tct aca	231
p4711	Phe Asn Met Glu Pro His Cys Phe Leu Ser Leu Thr Gln Ser Thr	75
	S	
GNSQ_4711	gtc agc ctg tcc caa ggc tgc cat cta ttc tct gtg ttt gtg cag	276
p4711	Val Ser Leu Ser Gln Gly Cys His Leu Phe Ser Val Phe Val Gln	90
	S	
GNSQ_4711	ctc atc tgg aca gct cat ctg gac aga cac aaa gaa tag	315
p4711	Leu Ile Trp Thr Ala His Leu Asp Arg His Lys Glu STOP	102
	S	

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Figure 5

		forward	
GNSQ_4320 p4320	tgttaat	atg tta ttt act tta tta ttc cga att cta atc ggt tat gtg aga Met Leu Phe Thr Leu Leu Phe Arg Ile Ile Gly Tyr Val Arg \$ \$ \$ \$ \$ \$ \$	51 15
GNSQ_4320 p4320		act ctg tgg acg aaa aat tct tgc tgc tgt tgg cga atg att tta Thr Leu Trp Thr Lys Asn Ser Cys Cys Cys Trp Arg Met Ile Leu \$ \$	96 30
GNSQ_4320 p4320		aat cat tca ttt aaa caa gaa gtg cct atg att gta gag cta aag Asn His Ser Phe Lys Gln Glu Val Pro Met Ile Val Glu Leu Lys \$	141 45
GNSQ_4320 p4320		caa aaa tgt gaa atg ttt tgt cag aaa tat cta gtt gat aaa gat Gln Lys Cys Glu Met Phe Cys Gln Lys Tyr Leu Val Asp Lys Asp \$	186 60
GNSQ_4320 p4320		tat tcc ttt cgt gtt tct gta acc tgt cag ttc ttt ata ctt tta Tyr Ser Phe Arg Val Ser Val Thr Cys Gln Phe Phe Ile Leu Leu \$	231 75
GNSQ_4320 p4320		cat gat tcc tac cca act gag aat aca tgg tca act att cca aca His Asp Ser Tyr Pro Thr Glu Asn Thr Trp Ser Thr Ile Pro Thr \$	276 90
GNSQ_4320 p4320		← reverse →	
		ttg tct gct ctt ata tcc tct ttg att ttt ctg tga Leu Ser Ala Leu Ile Ser Ser Leu Ile Phe Leu STOP \$	312 101

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Figure 6

forward

GNSQ_5008 p5008	ccagac atg atc ttt ggc ctg cta atc aaa gct ctt tat cta gcg tca gcc Met Ile Phe Gly Leu Leu Ile Lys Ala Leu Tyr Leu Ala Ser Ala S S S S	51 15
GNSQ_5008 p5008	tgg gca ggg gct ctg agc ctc ggc gct gct ggc att tgg ggc tgg Trp Ala Gly Ala Leu Ser Leu Gly Ala Ala Gly Ile Trp Gly Trp	96 30
GNSQ_5008 p5008	atg act ctt tgc tgt ggc tgc tgt cct gtg cat tac agg aca tta Met Thr Leu Cys Cys Gly Cys Pro Val His Tyr Arg Thr Leu S S	141 45
GNSQ_5008 p5008	cgt agc atc cct gac cac aac cta cta gat gcc agt agc acc ccc Arg Ser Ile Pro Asp His Asn Leu Leu Asp Ala Ser Ser Thr Pro	186 60
GNSQ_5008 p5008	tcc cta gtt atg aca acc aga aac atc tcc aga cat tgc caa tgt Ser Leu Val Met Thr Arg Asn Ile Ser Arg His Cys Gln Cys \$	231 75
GNSQ_5008 p5008	ccc ctg gtg gca aaa tca tcc ccg gct gag aat gag tgt tgc acg Pro Leu Val Ala Lys Ser Ser Pro Ala Glu Asn Glu Cys Cys Thr \$	276 90
GNSQ_5008 p5008	gta att cct cca ttc caa att aac aga gca ctt agg aac gag tgc Val Ile Pro Pro Phe Gln Ile Asn Arg Ala Leu Arg Asn Glu Cys	321 105
reverse		
GNSQ_5008 p5008	ttt ctc cta tta ctt tcc ctt taa Phe Leu Leu Leu Ser Leu STOP S	345 112

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Figure 8

		forward	
GNSQ_4922 p4922	ctgact	atg atg agg gtg cta agg ctg ctg gcg agg gtc ctc ctc ggc cag Met Met Arg Val Leu Arg Leu Leu Ala Arg Val Leu Leu Gly Gln S S S S S S S	51 15
GNSQ_4922 p4922		ctt ctc cta gca gca ggg cac gca cag ccc tgt ttt ctc atc tgc Leu Leu Leu Ala Ala Gly His Ala Gln Pro Cys Phe Leu Ile Cys S S	96 30
GNSQ_4922 p4922		ttt cag cag cat ttg cct cct act cca ctt ggg tca ctc aag ggt Phe Gln Gln His Leu Pro Pro Thr Pro Leu Gly Ser Leu Lys Gly	141 45
GNSQ_4922 p4922		ccc aaa ata gac ctg tgc att cat ggg acc cct ccc acc tgc ctc Pro Lys Ile Asp Leu Cys Ile His Gly Thr Pro Pro Thr Cys Leu S	186 60
GNSQ_4922 p4922		tct gct cag tgt ctc tgt tgg gac agg cag caa gtg ctt aaa tcc Ser Ala Gln Cys Leu Cys Trp Asp Arg Gln Gln Val Leu Lys Ser S	231 75
GNSQ_4922 p4922		← reverse → cag cca ctg ctc ccc gct gga gtc cac ctg aga act ttc cca gca Gln Pro Leu Leu Pro Ala Gly Val His Leu Arg Thr Phe Pro Ala	276 90
GNSQ_4922 p4922		← att tga Ile STOP S	282 91

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Figure 9N-Terminal Region

CXCL1	MARAALS --AAPSNPR ---LLRVALLLLLVAAGRRAAG
CXCL2	MARATLS --AAPSNPR ---LLRVALLLLLVAASRRAAG
CXCL3	MAHATLS --AAPSNPR ---LLRVALLLLLIVG SRRAAGAS
CXCL4	MS --SAF --CASRG ---LLFLGLLLLFLVVAFASA
CXCL5	MSLSSR --AARVPGPSSSLCALLVLLLLTQPGPIASA
CXCL6	MSLPSSR --AARVPGPSGSICALLALLLLTPPGFLASA
CXCL7	MSLRDTPSCNSARPLHALQVLLLSLLTALASSTKGQTKRNLAKGKEE
CXCL8	MT ---SKL-A-----V-ALLAAFLI -SAALCEG
CXCL9	MKKSG -----VLFLLGILLVLIGVQG
CXCL10	MNQTA -----I-LICCLIFLTLSGIQG
CXCL11	MSVKGM -----AIALAVILCATVVQG
p1754	MNVI -----VLFQFILLVFLVKIYKHADTLFYI
p0711	MVIPH -----LV-LLTLISFRKEKNSVFH
p2882	MSPS -----L-FFIFKIVLAIVDSL
p0210	MGFVVLCLIFFLCKTGMDSRFQLKLLFHCFQGL
p4922	MMR -----VRLLLARVLLGQLLLAA

Cys-rich region

CXCL1	ASVATELRCQ --CLQTLQGIHPKN -IQSVNVKSPG -----PHCAQTE --VIATLKNGRKA ---C
CXCL2	APLATELRCQ --CLQTLQGIHLKN -IQSVKVKSPG -----PHCAQTE --VIATLKNQKA ---C
CXCL3	VVTTELRCQ --CLQTLQGIHLKN -IQSVNVNRSPG -----PHCAQTE --VIATLKNQKKA ---C
CXCL4	EAEEDGDLQCL --CVKTTSQVPRRH -ITSLEVIKAG -----PHCPITAQ --LIATLKNGRK ---IC
CXCL5	GPAAAVRLRELRCV --CLQTTQGVHPKM -ISNLQVFAIG -----PQCSKVE --VVASLKNKGKE ---IC
CXCL6	GPVSAVLTELRCT --CLRVTLRVNPKT -IGKLQVFPAG -----PQCSKVE --VVASLKNKGQ ---VC
CXCL7	SLSDLYAELRCM --CIKTTSGIHPKN -IQSLEVIGKG -----THCNQVE --VIATLKDGRK ---IC
CXCL8	AVLERSAKELRCQ --CIKTYSKFHPKFIKELRVIESG -----PHCANTE --IIVKLSDGRE ---LC
CXCL9	TPVVRKGRCs --CISTNQGTIHLQSLKDLQFAPS -----PSCEKIE --IIATLKNVGQT ---C
CXCL10	VFLSRTVRRCT --CISISNQPVPNRSLEKLEIIPAS -----QFCPRVE --IIATMKKKGEKR ---C
CXCL11	FPMFKRGRCL --CIGPGVKAVVKADIEKIMYPs -----NNCDKIE --VIITLKENKGQR ---C
p1754	YIPIYVCM --CIH-SYALYNISLVDGLRMLR -----CSHK ---IIISTLTITF ---LC
p0711	LIFPAIHSLCL --CDSGRIPARNALDPSQDQQPLQQDKDGTEVMCAGSNLNVHSWVNEERK ---C
p2882	QFYMNFEVSCR --CLQKISVIL -IGIAFNLCNDLGS IVILTV-LCILIHEYEIYFLLFRSLIFSLC
p0210	FQRSHMDYDCE --CTLQGVFPEHRSNQRAAREVLPTP -----KHCRLIPLGTVLSECPFQAP ---C
p4922	GHAQPCFLICEQQHLPPTPLGSLKGPKID -----LCIHTGPPTCLSAQC -----LC
	S S S S

C-terminal region

CXCL1	LNPASPIVKKIIEKMLNSDKSN
CXCL2	LNPASPMVKKIIEKMLKNGKSN
CXCL3	LNPASPMVQKIIEKILNKGSTN
CXCL4	LDLQAPLYKKIIKKLLES
CXCL5	LDPEAPFLKKVIQKILDGGNKEN
CXCL6	LDPEAPFLKKVIQKILDSGNKNN
CXCL7	LDPDAPRIKKIVQKKLAGDESAD
CXCL8	LDPKENWVQRVVEKFALKRAENS
CXCL9	LNPDSDADVKELIKWEKQVSQKKQKNGKKHQKKVULKVRKSQRSRQKKTT
CXCL10	LNPESKAIAKNLLKAVSKERSK RSP
CXCL11	LNPKSKQARLIIKKVERKNF
p1754	LHAEILTNGLQLPTVFSTPACCTGW
p0711	GISIQCNIIQPLQSRKLCRLLQQR
p2882	FIVPEYSKFCNFYVKFILKNLFLMLS
p0210	WPQTKAIILNLWRNLEVLVEDRSLRQDCFKCTILLEFF
p4922	WDRQQVLKSQPLLPAGVHLRTFPAI

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Figure 10N-Terminal Region

CCL1	MQIITTALVCLLLAGMWPEDVD SKSMQV
CCL2	MKVSAAALLCLLLIAATFIPQGLAQPDAIN
CCL3	MQVSTAALAVLILCTMALCNQFSASLAAD
CCL4	MKLCVTVLSSLMLVAACSPALSAPMGSD
CCL5	MKVSAA ALAVILIATAICAPASASPYSS
CCL7	MKASAALLCLLLTAAAASPQGLAQPVGIN
CCL8	MKVSAAALLCLLLMAATFSPQGLAQPDVS
P4711	MVTPIWTLFICYCLTSLLVLQAIFKEIDNILEVLDLNQ
p4320	MLFTLLFRILIGYVRTLW
p5008	MIFGLLIKALYLASAWAGALSLGAAGIWG

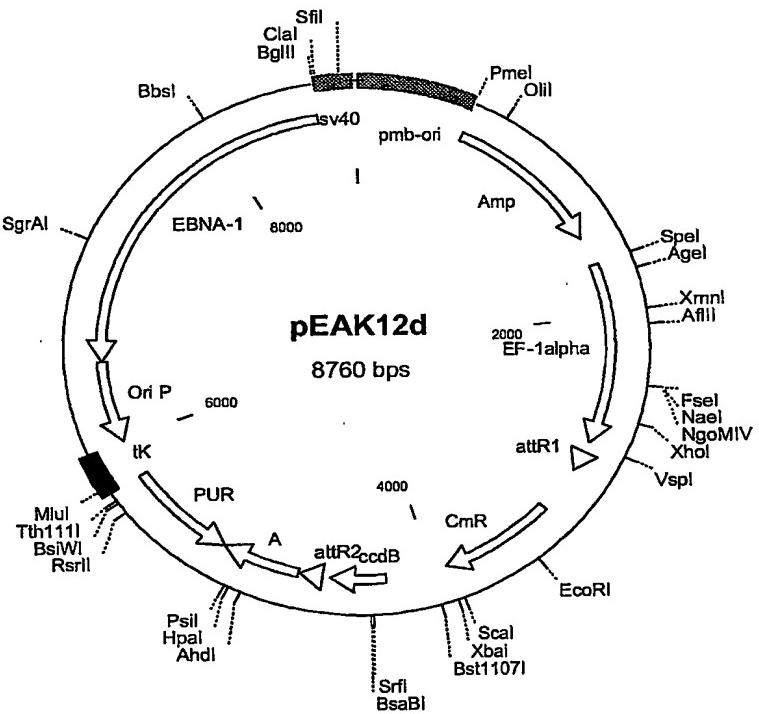
Cys-rich region

CCL1	PFSRCCFSFAEQEIPRLAILCYRN -TSSI-----	CSNEGLIFKLKRKGKEA -CALD
CCL2	APVTCYNTNRKISVQRILASYRRITSSK -----	CPKEAVIFKTIVAKEI -CAD
CCL3	TPTACCFSYTSRQIPQNFIADYFE -TSSQ-----	CSKPGVIFLTKRSRQV -CAD
CCL4	PPTACCFSYTARKLPRNFVVDYYE -TSSL-----	CSQPAVVFQTKRSKQV -CAD
CCL5	DITPCCFAYIARPLPRAHIKEYFY -TSGK-----	CSNPAAVVVFVTRKNRQV -CAN
CCL7	TSTTCCYRFINKKIPKQRLESYRTTSSH -----	CPREAVIFKTKLDKEI -CAD
CCL8	IPIITCCFNVINRKIPIQRLESYTRITNIQ -----	CPKEAVIFKTKRKGKEV -CAD
P4711	H P V R C C Y S F P T F C V E G M L L K L C F N M E P H -----	CFLSILTQSTVSLSQG --CHL
p4320	T K N S C C W R M I L N H S F K Q E V P M I V E L K Q K -----	CEMFCQKYLVDKDYSFRVSVTCQFF
p5008	W M T L C C G C C P V H Y R T L R S I P D H N L L D A S S T P S L V M T T R N I S R H C Q C P L V A K S S P A E N E	--CCTV S S S

C-terminal region

CCL1	TVGWVQRHRKMLRHCP SKRK
CCL2	PKQKVVQDSMDHLDKQTQTPKT
CCL3	PSEEWVQKVYSDLELSA
CCL4	PSESWVQEYVYDLELN
CCL5	PEKKWVREYINSLEMS
CCL7	PTQKVVQDFMKHLDDKKTQTPKL
CCL8	PKERWVRDSMKHLQIFQNLKP
P4711	FSVFVQLIWTAAHLDRHKE
p4320	ILLHD SYPTENTWSTIPTLSALISSLFL
p5008	I PPPQINRALRNECFLLLLSL

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Figure 11

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